Reg. No.:.... Name: ..... Third Semester B.Ed. Degree Examination, December 2020 **EDU – 13.8 : EMERGING TRENDS AND PRACTICES IN PHYSICAL** SCIENCE EDUCATION (2019 Admission) Time: 2 Hours Max. Marks: 50 PART – A Answer **all** questions by selecting the most appropriate one form the options. 1. Who invented Jigsaw teaching technique? (a) Elliot Aronson (b) Frank Lyman (c) Robert Glaser (d) Richard Suchman 2. Which among the following is not an element under experiential learning? Concrete experience (b) Reflective observation (a) (c) Practical simulations (d) Active experimentation Which of the following is not a provision for the education of gifted children 3. (a) Acceleration (b) Enrichment programme (c) Remedial programme (d) Triple track plan

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4.	The test level	developed to	measure	skills	and	knowledge	learned	in a	given	grade
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- (a) Placement test
- (b) Achievement test
- (c) Diagnostic test
- (d) Prognostic test
- 5. Reflection in action was proposed by
  - (a) Donald Schon
- (b) Curt Lewin
- (c) David A. Kolbe
- (d) D.W. Allen

 $(5 \times 1 = 5 \text{ Marks})$ 

PART - B

Answer all questions. Each question carries 1 marks.

- 6. What is meant by self reflection?
- 7. Mention any two online science journals.
- 8. What is remedial instruction?
- 9. What do you mean by circle learning?
- 10. List any two techniques that can be adopted in reflective teaching.

 $(5 \times 1 = 5 \text{ Marks})$ 

PART - C

Answer all questions. Each question carries 2 marks.

- 11. How teacher acts as a reflective practitioner?
- 12. What form of questions do you use for diagnostic test? Why?
- 13. What is the importance of e-content for teaching physical science?

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- 14. How does reflection improve teaching competence?
- 15. Briefly explain any two strategies that can be used to help creative learners.

 $(5 \times 2 = 10 \text{ Marks})$ 

## PART - D

Answer any four questions. Each question carries 5 marks.

- 16. What is grading? Discuss the merits and demerits of grading system.
- 17. What is meant by concept mapping? What are the basic principles of concept mapping?
- 18. Explain the importance of digital text in curriculum transaction.
- 19. Briefly describe a rubric for assessing a seminar.
- 20. Briefly explain the importance of diagnostic test in physical science education.
- 21. Explain the procedure of conducting think pair share learning.

 $(4 \times 5 = 20 \text{ Marks})$ 

## PART – E

Answer **any one** questions. Each question carries **10** marks.

- 22. Explain continuous and comprehensive evaluation by discussing the merits and demerits.
- 23. Describe brain based learning strategy.

 $(1 \times 10 = 10 \text{ Marks})$ 

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